

Ser

<u>ay</u>

Gly

Asn

Lys

Glu Glu 15 Pro Met Glu Ser Lys Leu 10 Leu Asp Ser Thr Phe Thr 5 Leu Gly Ser Asp

Trp 25 Glu Glu Ala Val Arg Leu Phe Ile 20 Ser Gly Ala Pro Pro Pro Ser-NH₂ 35 Ile

Glu Ser Glu 15 Pro Met <u>Gly</u> GIn Gly Lys Asn Ser Lys Leu 10 Leu Thr Phe Thr Ser Asp 5 Leu Phe Ile Glu Trp Trp 25 Gly Glu Gly Glu Ala Val Arg 20 His

Ser Gly Ala Pro Pro Pro Ser-NH₂ 35

7



Leu NH2 1 Xaa₁ Xaa₂ Xaa₃Gly Thr Xaa₄Xaa₅Xaa₆Xaa₇Xaa₈Ser Lys Gln Xaa₉Glu Glu Glu Ala Val Arg 25 Xaa₁₀Xaa₁₁Xaa₁₂Xaa₁₃Leu Lys Asn Gly Gly Xaa₁₄Ser Ser Gly Ala Xaa₁₅Xaa₁₆Xaa₁₇Xaa₁₈-Z NH, NH. Glul PhelPro Pro Pro Pro Serl Glu Trp Pro Pro Pro Ser Glu Phe Pro Pro Pro Ser Ser Ser Ser Pro | Pro | Pro | Pro | Tvr | Pro Pro Pro Pro Seri Trp Pro Pro Pro Pro Ser Fro Pro Pro Pro Pro Ser Glu Phe Pro Pro Pro Pro Ser Glu| Phe|Pro|Pro|Pro| Pro|Ser| Glu Trp | Pro | Pro | Pro | Ser Trp |Pro|Pro|Pro|Ser Pro Pro Pro Pro Ser |Xaa, |Xaa₂|Xaa₃|Xaa₄|Xaa₅|Xaa₆|Xaa₇|Xaa₈|Xaa₉|Xaa₉|Xaa₁₁|Xaa₁₂|Xaa₁₃|Xaa₄|Xaa₁₅|Xaa₁₅|Xaa₁₇|Xaa₁ Pro Pro Pro Pro Pro Pro Pro Pro Glu Trp Pro Pro Pro Pro Trp |Pro |Pro|Pro| Trp Pro Pro Pro 12 2 300 35 Olu Olu 픙 GE 믕 Glu Asp|Leu|Methaph|Ile Asplociy Met Phelile Asp|Leu|pGly|Phe|Ile Phelile Phelile Phelile Asp|LeupGly Phe lle Phelile Phelile | Asp|Leu|Met|Phe|Val Phelile |Ser|Asp|Leu|Met|Phelile Asp|Leu|Met|Phe|Ile Asp|Leu|Met|Phe|Ile Met Phelile Glu| Phe|Ser| Ser| Asp|Leu|Met| Phe|Ile Phelile Met Leu Leu Met Leu His Gly Glu Phe Thr Ser Asp Leu Leu | Asp|Leu|Met| Asp|Leu|Met His|Gly|Glu|Phe|Thr|Ser|Asp|Leu| Asplogly Aspilen Gly | Glu | Phe | Thr | Thr | Asp | Leu | Glul Phe Thr Ser Glu Gly | Glu | Phe | Thr | Ser | Asp Phe Thr | Ser Glu Phe Thr Ser Phe Thr Ser Giv Glul PhelThr | Ser Ser Ser Ser Gly Glu Phe Thr Ser GIV Glu Phe Ser Thr Gly Glu Phe Thr Ser Glu Phe Thr Gly Glu Phe Thr Gly | Glu | Phe | Thr | Glu naph Thr His Gly His Gly <u>≥</u> His Gly <u>공</u> <u>≥</u> H.S His His His His His His His SE Z Compound (SEQ.ID.NO) [26] 14 15 16 <u>@</u> <u>6</u> <u>20</u> 22 [23] [25] 12 <u>5</u> 21 ထ က 4 9 ∞ တ 2 4 S က

2/26 SUBSTITUTE SHEET (RULE 26)

N H Ser Ser Ser Ser Ird Medalmedalmedal Ser Ser Ser Ser Ser Ser Ser Ser tProltProltPro h Proin Proin Proin Pro PheltProltProltProltProl **PhehProhProhProhPro** tPro tPro tPro Phelmealalmeala|meala| Xaa PhelPro Pro Pro Pro Kaa, Pro Pro Phe Pro Pro Xaag|Xaa₁₀|Xaa₁₃|Xaa₁₃|Xaa₄|Xaa₁ Pro Pro Pro Phe Pro t Pro Pro 9 <u>L</u> Trp Asp Glu 3 Glu Glu <u>n</u>15 GIL Glu <u>G</u> Glu Glu PhetBug Glu Glu **PhetBug** Phelile Phe Val Phelile Phelile Phelile Phelile Phe IIe Phelile **Phe Ile** Phelile Phelile Φ Phe Met Met Lea Met Leu Met Met Met Leu Lea Met Met Leu ren Xaa_g Leu ne_ Leu Len ren Leu Leu Leu Leu ne Ten Leu Leu Asp Asp Aspl Asp Asp Asp Asp Asp Asp Xaa, Asp Asp Asp Asp Asp Seri Ser Xaa_s|Xaa₆ Ser Ser Phe Thr Phe Thr Thr **Phe Thr** Phe Thr **Phe Thr** Phe Thr **Phe**|Thr PheThr PheThr **Phe Thr** PhelT Phe Phe. Phe Xaa विधिर 35 ng Glu 300 36 Glu G G Olu Olu Glu Glu Glu OSC CSC Xaa, Xaa, ල 증 Ala हें हें GÍ <u>공</u> Gly GIY <u>ફ</u> GIV GI√ <u></u>8 His His His His 黑 His His His His. His S 王 S 33 34 36] [28] 29 30 38 <u>4</u> 39 [27] 31 37 28228 28 29 9 ∞ 27 2 က

Fig. 3B

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50	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Arg	Ala	Arg	Arg	Arg							
19	Val	Val	Val	Val	Val	Val	Val	Val	Ala	Val	Val	Val	Val							
\$	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala							
11	<u></u>	Olu Glu	Glu	Glu	gļn	<u> </u>	Glu	a B B	<u> </u>	alu Glu	ළි	ng Cla	<u>Glu</u>	ЭE	Ala	Эlu	<u>B</u>	<u> </u>	Glu	<u> </u>
16	nıs	Olu	Olu	Olu	glu	ПĐ	Glu	<u>a</u>	ng Gl	N G	gln	nlb	glu	Ala	glu	nlə	OP OP	Glu	Olu	<u></u>
15	Glu	Glu	Olu	njb	Olu	Glu	Olu	0lu	Glu	NB	njg	Glu	Ala	Glu	nıg	Olu	ŊŊ	Glu	nlD	Glu
14	Met	Met	Leu	Leu	Leu	Leu	ren	Leu	Leu	ren	Leu	Ala	Leu							
13	등	Glu	Gln	Gln	Gln	ulb	Gln	Gln	Gln	Gln	Ala	Gln								
12	Lys	Lys	Ala	Lys																
=	Ser	Ala			Ser															
10	Leu	na-	Leu	ren	ne	-en	ne	Ala	ren	ne	ren	ne	ren	Leu	Leu	ren	ne	ren	ren	Ten
6	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp							
&	Ser	Ser	Ser	Ser	Ser	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser
7	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr							
9	Phe	Phe	Phe	Phe	Phe	Ala	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
വ	Thr	Thr	Thr	Thr	Ala	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr
4	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly							
က	35	Glu	Glu	Glu	Glu	Glu	Glu	Glu	nıs	nıs	Glu	Glu	Glu	Glu						
2	G)	Gly	Gly	Ala	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly
_	His	His				1					Г									
Amino Acid Position	Compound 1	Compound 2	Compound 3	Compound 4	Compound 5	Compound 6	Compound 7	Compound 8	Compound 9	Compound 10 HIS	Compound 11 His	Compound 12 His	Compound 13 His	Compound 14 His	Compound 15 His	Compound 16 HIS	Compound 17 His	Compound 18 HIS	Compound 19 HIS	Compound 20 HIS
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Fig. 4A2

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39																				
38																				
37																				
36																				
35																				
34																				
33																				
32																				
31	NH2																			
30	Gly																			
29	Gly	NH2	NH2	ZHN	NH2	NH2	X 된	SH2	NH2	SH2	NH2	NH2	NH2	NH2	NH2	ZHN	NH2	NH2	NH2	NH2
28	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn
27	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
26	Fen	ne Tes	Leu	Leu	Leu	ren	Lea	Let	Teg	Lea	<u></u>	ne Te	E	Leu	Leu	ren	Leu	Fe Fe	<u>F</u>	Teg
25	Trp	Trp	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Ala							
24	O G I	මු	Glu	Glu	Olu Glu	Glu	<u>ല</u>	<u>B</u>	alu Gli	<u> </u>	Olu Olu	<u> </u>	ළි	O G G	Glu	Glu	Glu	<u>응</u>	Ala	픙
23][e	<u>e</u>	Ile	lle	lle	<u>e</u>	<u>lle</u>	<u>e</u>	Ile	<u>e</u>	Ile	Ile	<u>e</u>	<u>lle</u>	lle	Ile	Ile	<u>e</u>	<u>e</u>	<u>e</u>
22	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	ı.	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
21	neŋ	ren	Leu	ren	ren	ren	ren	ner	ne Ten	i I	ner Ten	ਡ	e F	Leu	ne-	Leu			ਡ	ਛ
Amino Acid Position	Compound 1	Compound 2	Compound 3	Compound 4	Compound 5	Compound 6	Compound 7	Compound 8	Compound 9	Compound 10 Leu	Compound 11	Compound 12	Compound: 13	Compound 14	Compound 15	Compound 16	Compound 17 Leu	Compound 18 Ala	Compound 19	Compound 20

Arg Arg Arg Arg Arg Arg Arg 8 တ <u>श्व</u> Val <u>ब</u> Va Val <u>a</u> **√a** ब्र <u>a</u> <u>a</u> Sa <u>a</u> <u>a</u> Sal <u>8</u> <u>a</u> <u>8</u> <u>8</u> 18 Ala V \overline{A} ₹ 3 <u> 원</u> 픙 300 3 NS 0 Glu <u>응</u> <u> 원</u> GE <u>a</u> Glu <u>ස</u> Glu 3 ŊŊ <u>ස</u> Glu 3 3 9 픙 믕 10 믕 Glu <u>응</u> 픙 픙 Glu 35 3 3 99 Glu 픙 릉 픙 35 GE 3 n G NB 3 15 3 픙 GE 3 Leu Leu Met ren en-Met Leu Leu Leu Leu **Met** Met Met Met Met 9 **Met** 9 9 Met 9 14 등 등 띪 등 등 GIN 등 등 띖 Glu 등 등 믎 등 등 등 등 쯢 멾 등 က Lys Lys r\s Γ\S Lys Lys Lys Γ\S Lys Z\S Lys Lys Lys T/S T\S Lys Lys T/S Lys 2 Ser na7 le le 9-Leu Leu <u>66</u> Leu ren Ten Leu Leu 9 Leu Fen Leu Leu Lea 9 Leu Leu Lea 9 Asp O Ser ∞ fir (h 크 山 止 르 三 三 h 上 ٥ 그 吊 量 三 교 上 三 上 Phe 9 크 Thr 크 三 크 Th T 山口 크 트 르 트 S <u>ම</u> <u>ප</u> <u>G</u> ਲੇ ਲੇ <u>G</u> Gly GIY ਣੇ ਣੇ 흜 <u>e</u> <u>8</u> Gly GIV ਛੇ <u>ਲ</u> ਲੇ <u>응</u> <u>S</u> ਲੇ 4 믕 3 륜 35 GE 픙 က ত্ত <u>ප</u> <u>ප</u> ਲੇ <u>@</u> <u>ڪ</u> <u>@</u> <u>ල</u>ි <u>a</u> <u>∂</u> <u>⊜</u> <u>a</u> <u>⊜</u> ਲੇ ਲੇ ්ප් ट्ठे ਣੇ <u>₩</u> ਲੇ <u>응</u> <u>ज</u> 2 HS His 岩 S 王 문 王S 岩S Compound 33 His E S T Compound 32 His Compound 39 HIS Compound 23 Compound 26 Compound 27 Compound 28 Compound 29 Compound 30 Compound 35 Compound 40 Compound 25 Compound 31 Compound 34 Compound 36 Compound 22 Compound 21 Compound 24 Compound 37 Compound 38 Amino Acid Compound 4 **Position**

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39				NH2	NH2																
38				Pro	Pro	R R S	NF2														
37				Pro	Pro	Pro	Pro	Z E E	<u>꽃</u>												
36		,		Pro	Pro	Pro	Pro	Pro	Pro	꽃	ZHZ										
35				Ala	NH2	NHZ															
34				G G	Gly	Gly	<u>a</u>	ਲੇ	<u>B</u>	ਲੇ	<u>ख</u>	ट्ट	ਲੇ	꽃	꽃						
33				Ser	N H S	꾶															
32				Ser	뫒	NH2															
31				Pro	Pro	Pro	Pro	<u>മ</u>	<u>P</u>	Po	Pro	NH2									
30				Gly	Gly	<u>G</u> ly	ਲੇ	ਲੇ	ਲੇ	<u>S</u>	<u>a</u>	<u>a</u>	ਲੁੰ	<u>S</u>	<u>a</u>	<u>a</u>	ङ्	ट्ट	<u>G</u>	Gly	NH2
29	NH2	NH2	NH2	<u>G</u>	Gly	Gly	र्ड	र्ड	र्ड	3	<u>S</u>	<u>ਨੂੰ</u>	ਲੇ	ट्ट	Gly	<u>S</u>	ਲੇ	ਲੁੰ	ල්	Gly	Gly
28	Asn	Asn	Ala	Asn																	
27	Lys	Ala	Lys	Lys	Lys	Lys	Lys	Lys	r/s	Lys											
26	Ala	ren	ren	Fen	ren	ren	ne-	골	<u>공</u>	<u>e</u>	nen	nen	Leu	Leu	Leu	ren	<u>E</u>	Fe	ren	Leu	Leu
25	Phe	Phe	Phe	Trp	Phe	Trp	Phe	<u>e</u>	Pe	<u>e</u>	Phe	<u>T</u>	Phe	Trp	Phe	du	Phe	<u>tr</u>	Phe	Phe	Trp
24	Glu	Olu Glu	Glu	믕	O G G	먪	믕	륭	륭	륭	픙	믕	굞	픙	O G G	믕	픙	ਛੁ	먮	Glu	Glu
23	ale	<u>lle</u>	alle	<u>e</u>	lle	<u>e</u>	Ile	<u>e</u>	<u>e</u>	<u>e</u>	lle	lle	lle								
22	Phe																				
21	Leu	Fen	Leu	ne Te	ner	၉	골	<u>e</u>	률	귤	굘	<u></u>	ne Te	Fe	ren	na Te	<u>8</u>	Fe Fe	ne-	ne Ten	ner
Amino Acid Position	Compound 21	Compound 22	Compound 23	Compound 24	Compound 25	Compound 26	Compound 27	Compound 28	Compound 29	Compound 30	Compound 31	Compound 32	Compound 33	Compound 34	Compound 35	Compound 36	Compound 37	Compound 38	Compound 39	Compound 40	Compound 41

Hig.

Amino Acid		6	~	4	ĸ	ű	_	α	σ	Ç	Ŧ	12	13	14	15	46	17	48	5	۲
Position			-	-	-	>	-	>	>	2	-	J	2	-	2	2		2	2)
Compound 42 His		G G	Glu	Gly	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg
Compound 43 His		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 44 His		G G	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 45 His		Gly	nl9	Gly	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 46 His		Gly	glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 47 HIS		Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 48 His		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Met	Olu	Glu	Olu	Ala	Val	Arg
Compound 49 Arg		Gly	Glu	Glý	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Met	Glu	Glu	Olu	Ala	Val	Arg
Compound 50 His	1	Gly /	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 51 HIS		Gly (Glu	Glý	Thr	aph	Thr	Ser	Asp	ren	Ser	Lys	Gln	nəŋ	Olu	Glu	njg	Ala	Val	Arg
Compound 52 His	_	Gly (elu	Gly	Thr	he		Ser	Asp	ren	Ser	Lys	Gln	Met	njg	Glu	Olu	Ala	Val	Arg
Compound 53 His		Gly (glu	Gly	Thr	he	Ser	Thr	Asp	ren	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 54 His		Gly (Glu	Gly	Thr	he	Thr	Ser	Glu	Leu	Ser	Lys	Gln	Met	Ala	Glu	Glu	Ala	Val	Arg
Compound 55 His		Gly (elu	Gly	Thr	Phe	Thr	Ser	Asp	pGly	Ser	Lys	Gln	ren	Glu	Glu	Glu	Ala	Val	Arg
Compound 56 His		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg
Compound 57 HIS		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	ren	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 58 His		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg
Compound 59 H	HIS G	Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Leu	Glu	Glu	Glu	Ala	Val	Arg
Compound 60 HIS		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
Compound 61 HIS		Gly (Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu	Glu	Ala	Val	Arg
											1									

22 23 24 25 26 27 28 29 30 31 32 33 34 Phe IIe Glu Phe Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn NH2							,														
22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 Phe IIe Glu Phe IIe Glu Tip Leu Lys Asn Gly HPro Ser Gly Ala Pho IPro	39		NH2	NH2																	
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 Phe lie Glu Phe Leu Lys Asn Gly Gly Phe lie Glu Trp Leu Lys Asn Gly Gly Phe lie Glu Trp Leu Lys Asn Gly Gly Phe Ser Ser Gly Ala Phe Phe lie Glu Trp Leu Lys Asn Gly Gly Pho Ser Ser Gly Ala Pho Pho Phe lie Glu Trp Leu Lys Asn Gly Gly Pho Ser Ser Gly Ala NHE Phe lie Glu Trp Leu Lys Asn Gly Gly Pho Ser Ser Gly Ala NH2 Phe lie Glu Trp Leu Lys Asn Gly Gly Pho Ser Ser Gly Ala NH2 Phe lie Glu Trp Leu Lys Asn NH2 Phe lie Glu Trp Leu Lys Asn NH2 Phe lie Glu Trp Leu Lys Asn NH2 Phe lie Glu Phe Leu Lys Asn Oly Gly Pho Ser Ser NH2 Phe lie Glu Phe Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Glu Trp Leu Lys Asn Oly Gly Phe lie Clu Trp Phe lie Glu Trp Leu Lys Asn Oly Clu Phe lie Clu Trp	38			IPro	NH2	NH2	NH2														N H S
22 23 24 25 26 27 28 29 30 31 32 33 34 35 Phe IIe Glu Phe Leu Lys Asn Gly MH2 Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn MH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn Cly Gly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Gly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Glu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly Cly Cly Nh2 Phe IIe Clu Trp Leu Lys Asn Cly	37		tPro	tPro	Pro	Nme	hPro	NH2													마음
22 23 24 25 26 27 28 29 30 31 32 33 34 Phe IIe Glu Phe Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn NH2	36		tPro	tPro	Pro	Nme	hPro	hPro	NH2												h Pro
22 23 24 25 26 27 28 29 30 31 32 33 34 Phe IIe Glu Phe Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn NH2	35		Ala												Ala						
Phe IIe Glu Phe Leu Lys Asn Gly NH2 Phe IIe Glu Trp Leu Lys Asn Gly Gly Pro Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly Nme Ser Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn Gly Gly NH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2	34		Gly	Gly	<u>G</u>	Gly	Gly	Gly	ह										SHS		ਲੁੰ
Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn Gly Gly Phe IIe Glu Phe Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly	33		Ser						-				Ser		Ser						
Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn Gly Gly Phe IIe Glu Phe Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly Phe IIe Glu Trp Leu Lys Asn Gly Gly	32		Ser										Ser		Ser						
Phe IIe Glu Trp Leu Lys Asn Gly Phe IIe Glu Trp Leu Lys Asn MH2 Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn Gly Phe IIe Glu Phe Leu Lys Asn Gly Phe IIe Glu Trp Leu Lys Asn Gly	31		tPro	Pro	Nme	Nme	hPro	hPro	P _O	꽃									Pro		Pro Pro
Phe IIe Glu Phe Leu Lys Asn Gly Phe IIe Glu Trp Leu Lys Asn NH2 Phe IIe Glu Phe Leu Lys Asn NH2 Phe IIe Glu Trp Leu Lys Asn Gly Phe IIe Glu Phe Leu Lys Asn Gly Phe IIe Glu Trp Leu Lys Asn Gly	30	NH2	Gly	Gly	Gly	Gly	Gly	Gly	र्ड	र्ड									Gly	NH2	ह
Phe IIe Glu Phe Leu Lys Asn Phe IIe Glu Trp Leu Lys Asn Phe IIe Glu Phe Leu Lys Asn Phe IIe Glu Trp Leu Lys Asn Ph	29	Gly	l	Į	N H S	SHZ N	NH2	윒	NH2	NH2	NH2	NH2	<u>ල</u>	Gly	ह						
Phe IIe Glu Trp Leu	28	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn		Asn	Asn
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Phe lie Glu	26	ren	Lea	Leu	ren	nen	ren	ren	ne Ten	<u>a</u>	ren	ner	ne Te	Lea Lea	Leu	Leu	ren	Leu	Fe Fe	ren Len	Lea
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mino Acid 21 Dosition mpound 42 Leu mpound 43 Leu mpound 44 Leu mpound 45 Leu mpound 46 Leu mpound 50 Leu mpound 50 Leu mpound 51 Leu mpound 52 Leu mpound 54 Leu mpound 55 Leu mpound 55 Leu mpound 56 Leu	22	Phe	Phe	Phe	Phe	Phe	Phe	Phe	naph	Phe	Phe	Phe	Phe	Phe							
mpound 43 mpound 44 mpound 45 mpound 46 mpound 46 mpound 56 mpound 57 mpound 58		Leu			Leu	ne Ten	<u>F</u>		<u>E</u>	哥	<u>e</u>	Ted.			ren			ne			E E
\frac{1}{2} \	Amino Acid Position	Compound 42	Compound 43	Compound 44	Compound 45	Compound 46	Compound 47	Compound 48	Compound 49	Compound 50	Compound 51	Compound 52	Compound 53	Compound 54	Compound 55	Compound 56	Compound 57	Compound 58	Compound 59	Compound 60	Compound 61 Leu

Fig. 4B2

Compound No.

- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn-NH₂ 62
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH^Eoctanoyl Asn-NH₂ 63
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu 64
- Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn Gly Gly-NH₂
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val 65
- Arg Leu Phe Ile Glu Phe Leu Lys-NH $^{\rm E}$ octanoyl Asn Gly Gly-NH $_2$
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu 99

Phe IIe Glu Trp Leu Asn Lys-NH $^{\rm E}$ octanoyl-NH $_{\rm 2}$

<u>.</u>

4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu **29**

Phe Ile Glu Phe Leu Asn Lys-NH $^{\rm E}$ octanoyl-NH $_{\rm 2}$

4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu 89

Phe Ile Glu Trp Leu Asn Lys-NH $^{\mathrm{E}}$ octanoyl Gly Gly-NH $_2$

4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu 69

Phe Ile Glu Phe Leu Asn Lys-NH^Eoctanoyl Gly Gly-NH₂

Fig. 4D

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4E
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L	∞	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	-
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T	~ ~	Gly G	GlyA	Gly G	GlyG	Gly G	Gly A	Gly G	Gly G	GlyG	Ala G	Ala G	Gly A	Gly A	GlyA	Gly A	-				
				His																	
Amino Acid	Position	Compound 70 Ala	Compound 71 His	Compound 72	Compound 73 His	Compound 74 Ala	Compound 75 His	Compound 76 His	Compound 77 His	Compound 78 His	Compound 79 Ala	Compound 80 Ala	Compound 81 Ala	Compound 82 Ala	Compound 83 Ala	Compound 84 Ala	Compound 85 Ala	Compound 86 Ala	Compound 87 Ala	Compound 88 Ala	14 00.

39 38 37 36 35 34 33 32 은 30 꽃 圣 呈 NH2 **ZHN** 몿 23 Asn 28 Asn Asn Asn Asn Asn Asn S -{\sqrt{s} Lys Lys **L/S** Lys S/J r/S 2 Leu Fe Leu Lea E Fen 哥 E E E 26 E ne Len <u>ह</u> <u>ਛ</u> Fe <u>E</u> Fen Lee Lee 哥 <u>E</u> Fen Phe Phe Phe Phe Phe Phe Phe Ыhe 25 1 4 으 <u>d</u> T D Тrp Ē 1 <u>1</u> 4 P P 믕 ම් 픙 픙 픙 픙 픙 픙 릉 픙 ළි 픙 3 믕 24 ළ <u>@</u> <u>a</u> **e** e <u>e</u> e <u>e</u> <u>e</u> <u>a</u> <u>e</u> <u>@</u> <u>@</u> <u>e</u> <u>e</u> <u>e</u> Phe Phe Phe Phe 뮵 Phe Phe 22 <u></u> <u>e</u> 哥 Compound 73 Leu Compound 74 Leu Compound 75|Leu Compound 76|Leu ren Leu Leu Fen Leu Compound 77/Leu Compound 78 Leu Compound 79|Leu <u>a</u> 哥 Leu E E Compound 80|Leu 2 Compound 70 Compound 72 Compound 71 Compound 81 Compound 82 Compound 85 Compound 87 Compound 88 Compound 83 Compound 86 Compound 89 Compound 84 Amino Acid Position

Fig. 4E2

20 တ Sal Val Val Val <u>ख</u> الم الم <u>ब</u> <u>ਲ</u> <u></u> <u>R</u> Val ۲ Ala Ø # ₹ 0 In 35 믕 믕 픙 픙 3 픙 믕 <u>응</u> 픙 믕 믕 団 3 Glu 3 <u>응</u> 픙 Glu 3 <u> 원</u> <u>등</u> 믕 300 픙 16 gen 믕 3 Glu <u>ම</u> 35 Glu 픙 35 믕 GE Glu 3 5 등 Met Fen Leu Met Leu Met reu Met Fea Met Leu Leu Fe Met Met 4 Glu 띖 Gh 띪 띮 뜶 띪 띖 Gln 등 등 등 띪 Ala 13 Z N r_{ys} Lys Lys Lys Lys Lys Lys Lys Lys T/S Z\S Ala Ala \sim Ser Ser Ala Ser Ser Ser Ser Ser Ala Ser Ser Ser Ser Ser Ser Pgly Pgly Fen Lea ren F Leu Leu Leu Leu eu-Lea Ala Ala **-eu** 9 Asp 흥 Ala Ala 9 Ser Ala Ser Ser ∞ Γh 크 口口 卫 Thr Phe 9 Thr 三 교 Thr Thr Thr 上 上 三 Thr Thr 르 5 ල් ਲੇ <u>@</u> ਲੇ <u>ප</u> <u>ਨ</u> ਲੇ <u>ල</u> <u>≘</u> ල<u>ි</u> Gly 3€ <u>ප</u> <u>ਲ</u> <u>ප</u> 4 Asp က ਲੇ <u>පි</u> <u>ල</u> <u>⊜</u> <u>ප</u> ਲੇ ਲੇ ਲੇ ਲੇ ਛੇ GIV ਲੇਂ <u>@</u> <u>පි</u> 2 Ala Ala Ala Ala Ala Compound 24 Ala Compound 25 Ala Compound 29 Ala Compound 30 Ala Compound 31 Ala Compound 33 Ala Ala Compound 23 Ala Compound 26 Compound 21 Compound 22 Compound 27 Compound 28 Compound 32 Compound 34 Compound 35 Amino Acid Position

Fig. 4E3

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53	ZHN	NH2	NH2	SHN	NH2	NH2	NH2	NH2	NH2	NH2	NH2	NH2	NH2	NH2	NH2
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28	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn		Asn
32 28	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Lys Asn	Asn	Lys Asn				
				Lys		Lys			Lys		[AS		Leu Lys Asn		Leu Lys Asn
27	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	[AS	Lys	eu Lys	eu Lys Asn	Phe Leu Lys Asn NH2
26 27	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys	Leu Lys Asn	Glu Phe Leu Lys Asn				
25 26 27	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys	Phe Leu Lys	Trp Leu Lys Asn	Phe L
24 25 26 27	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys	Glu Phe Leu Lys	Glu Trp Leu Lys Asn	Ile Glu Phe L
21 22 23 24 25 26 27	Leu Phe lie Glu Phe Leu Lys	Leu Phe lie Glu Trp Leu Lys	Leu Phe lie Glu Phe Leu Lys	Leu Phe Ile Glu Trp Leu Lys	Leu Phe lie Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys	Leu Phe Ile Glu Phe Leu Lys	Leu Phe lie Giu Trp Leu Lys	Leu Phe Ile Glu Phe Leu Lys	Leu Phe lie Glu Trp Leu Lys	Ile Glu Phe Leu Lys	Leu Phe lie Glu Trp Leu Lys	Leu Phe lie Glu Phe Leu Lys	Leu Phe lie Glu Trp Leu Lys Asn	Phe Ile Glu Phe L
22 23 24 25 26 27	Phe lie Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys	Phe lie Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys	Phe lie Glu Phe Leu Lys	lle Glu Trp Leu Lys	Phe lie Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys	Compound 29 Leu Phe Ile Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys	Compound 31 Leu Phe Ile Glu Phe Leu Lys	Phe Ile Glu Trp Leu Lys	Phe lie Glu Phe Leu Lys	Phe lie Glu Trp Leu Lys Asn	Ile Glu Phe L

Fig. 4E4

Leu Ser Lys Gln Ala Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Ala Glu Glu Glu Ala Val Arg Leu Ser Lys Gln PGlyGlu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Ala Glu Glu Ala Val Arg Leu Ser Lys Gln Met Ala Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Ala Ala Arg Leu Ser Lys Gln Leu Glu Glu Ala Ala Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg
Ser Lys Gln Ala Glu Glu Glu Ala Ser Lys Gln Ala Glu Glu Glu Glu Ala Ser Lys Gln Met Ala Glu Glu Glu Ala Ser Lys Gln Met Ala Glu Glu Glu Ala Ser Lys Gln Met Ala Glu Glu Ala Ser Lys Gln Met Glu Ala Glu Ala Ser Lys Gln Leu Glu Glu Ala Ger Lys Gln Leu Glu Glu Ala Ser Lys Gln Leu Glu Glu Ala Ala Ser Lys Gln Leu Glu Glu Glu Ala Ser Lys Gln Met Glu Glu Glu Ala
Ser Lys Gln Ala Glu Glu Glu Ser Lys Gln Ala Glu Glu Glu Ser Lys Gln PGly Glu Glu Glu Glu Ser Lys Gln PGly Glu Glu Glu Ser Lys Gln Met Ala Glu Glu Glu Ser Lys Gln Met Glu Ala Glu Glu Ser Lys Gln Met Glu Ala Glu Glu Ser Lys Gln Met Glu Glu Ala Ser Lys Gln Met Glu Glu Glu
Ser Lys Gln Ala Glu Glu Ser Lys Gln Ala Glu Glu Glu Ser Lys Gln PGlyGlu Glu Ser Lys Gln Met Ala Glu Glu Ser Lys Gln Met Ala Glu Ser Lys Gln Met Glu Ala Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Glu
Ser Lys Gln Ala Glu Glu Ser Lys Gln Ala Glu Glu Glu Ser Lys Gln PGlyGlu Glu Ser Lys Gln Met Ala Glu Glu Ser Lys Gln Met Ala Glu Ser Lys Gln Met Glu Ala Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Ser Lys Gln Leu Glu Glu Ser Lys Gln Met Glu Glu Glu
Ser Lys Gln Ala Glu Ser Lys Gln Ala Glu Ser Lys Gln DGlyGlu Ser Lys Gln Met Ala Ser Lys Gln Met Glu Ser Lys Gln Met Glu Ser Lys Gln Leu Glu
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Amino Acid 1 Position Compound 105 Ala Compound 106 Ala Compound 109 Ala Compound 112 Ala Compound 114 Ala Compound 115 Ala Compound 115 Ala Compound 116 Ala Compound 116 Ala Compound 116 Ala Compound 120 Ala
Amino Acid Position Compound 103 Compound 110 Compound 111 Compound 112 Compound 114 Compound 115 Compound 115 Compound 116 Compound 117 Compound 118

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29	NH2	NH2	NH2	NH2	NH2	NH2	NH2	NH2	ZHN	NH2	NH2	NH2	NH2	NH2	NH2	NH2	ZHN	ZHN	ZHN	NH2
28	Asn	Asn	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn NH2
27	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
26	ren	ren	ren	ren	ren	Leu	Ter	Fe	<u>e</u>	<u>ह</u>	<u>e</u>	Fe	Leu	Leu	Leu	Leu	Fe	Fea	Leu	Leu
25	Trp	Phe	Trp	Phe	Trp	Phe	T d	Phe	Trp	Phe	<u>T</u>	Phe	To	Phe	Trp	Phe	Trp	Phe	Trp	Phe
24	Glu	Glu	Glu	Glu	Glu	සු	Glu	Glu	Glu	Glu	Glu	Glu	O O O	Glu	Olu	Glu	픙	Glu	Glu	Glu
23	<u>=</u>	<u>=</u>	lle][e	<u>e</u>][e][e	<u>=</u>	<u>e</u>	<u>e</u>	<u>9</u>	<u>le</u>	<u>e</u>	Ile	116	Ile			Val	Val
22	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Nala 11e	Nala Ile	Phe	Phe
21			哥	E E	Γ		e	9		,	1	1	1	ਡ			Leu	i	1	1 1
Amino Acid Position	Compound 105 Leu	Compound 106 Leu	Compound 107	Compound 108	Compound 109 Leu	Compound 110 Leu	Compound 111	Compound 112	Compound 113 Leu	Compound 114 Leu	Compound 115 Leu	Compound 116 Leu	Compound 117 Leu	Compound 118	Compound 119 Ala	Compound 120 Ala	Compound 121	Compound 122 Leu	Compound 123 Leu	Compound 124 Leu

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2 9 Val الم الم <u>쩅</u> <u>Kal</u> Val Val <u>ام</u> <u>श्व</u> <u>اعا</u> <u>ब</u> <u>ब</u> <u>a</u> ब्र <u>ھ</u> Sal <u>ھ</u> Ala 8 a B Glu O C C Olu 96 3 Glu 릉 <u>B</u> 릂 <u>ම</u> all B 300 릀 <u>ම</u> <u>응</u> <u>B</u> glu 3 16 Glu 믕 <u>B</u> 300 Glu 3 3 35 3 Glu 5 Leu Met Leu Met Leu Met Met Leu Met Leu Met Met Leu Leu Met Met 4 등 등 띖 등 등 Gln 믮 띖 Glu 띮 Gin 등 등 등 띖 등 5 Lys r\s Lys r/s T/S Lys Lys C/S ΓVS Lys r\s 2 Ser E E <u>9</u> Leu nanale e 9 ne T **E** ne-Fer Leu Lea Leu eu eu Leu 9 Asp Ala 9 Ser ∞ 三 計 Phe 9 르 三 計 中 Ē 1 르 르 山上 트 5 ලි ੇ <u></u>€ _ <u></u> <u>ම</u> <u>ලි</u> ट्टे <u>S</u> ਲੇ dالا GI√ dl۸ <u>ප</u> Ala <u>ප</u> 4 Asp 300 200 Ala 3 က ි ਲੁੰ ੇਂ ⊛ਂ <u>⊜</u> ਲੇ ਲੇ ਨੁੰ <u>ප</u> ਛੇ <u>@</u> ි <u>≅</u> <u>ල</u>් 2 Ala Aa Compound 127 Ala Ala Ala Compound 131 Ala Compound 132 Ala Ala Compound 134 Ala Compound 137 Ala SE Compound 130 Ala Compound 135 Ala Compound 136 Ala Compound 125 Compound 126 Compound 128 Compound 129 Compound 133 Compound 138 Compound 139 Compound 140 Amino Acid **Position**

Fig. 4F3

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39													N N N	NH2		
38													Pro	Pro	NH2	
37													Pro	Pro	Pro	NH2
36													Pro	Pro	Pro	Pro
35													Ala	Ala	Ala	Ala
34													G S	Gly	Gly	Gly
33													Ser	Ser	Ser	Ser
32													Ser	Ser	Ser	Ser
31													Pro	Pro	Pro	Pro
30													ਨੁੰ	Gly	Gly	Gly
29	NH2	NH2	NH2	NH2	NH2	NH2	N H S	꽃	NH2	꽃	X N	NH2	<u>S</u>	Gly	Gly	
78	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Ala	Ala	Asn	Asn	Asn	Lys Asn Gly
27	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Ala	Ala	Lys	Lys	Lys	Lys	Lys	Lys
26	ren	Leu	Leu	ren	ren	ren	Ala	Ala	æ	Leu	ne Te	ren	Fen	Leu	ren	Leu
25	Trp	Phe	Trp	Phe	Ala	Ala	Tp	Phe	<u>T</u> rp	Phe	<u>T</u>	Phe	<u>Tr</u>	Phe	Trp	Trp
24	Glu	O O O	Asp	Asp	a G	ng Gir	O O O	<u> </u>	픙	<u>B</u>	<u>ല</u>	<u> </u>	믕	Glu	Glu	Glu
23	tGly	taly	Ile	Ile	<u>=</u>	<u>Ie</u>	<u>e</u>	<u>e</u>	<u>e</u>	<u>e</u>	<u>e</u>	<u>lle</u>	<u>e</u>	Ile	Ile	<u>lle</u>
22	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
21	Leu	Teg	ren	ne-	<u>ह</u>	Leu Leu	Leu	ᡖ	<u>e</u>	Fer	哥	ren	Ter Ter	ren	ne Tea	le Le
Amino Acid Position	Compound 125 Leu	Compound 126	Compound 127	Compound 128	Compound 129	Compound 130	Compound 131	Compound 132	Compound 133	Compound 134	Compound 135	Compound 136	Compound 137	Compound 138	Compound 139	Compound 140 Leu
4	S	10	رن	ن	I O	S	ပ	<u> </u>	10	3/2		S)	ပ	ပ	ပ	S

Fig. 4F4

Fig. 4G1

Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Gly Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Glu Glu Glu Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Glu Glu Glu Glu Glu Glu Ala Val Cly Thr Phe Thr Ser Asp Leu Ser Lys Glu Glu Glu Glu Glu Ala Val Cly Th																			
Giy Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Leu Giu Giu Giu Ala NGIy Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIy Ala Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIy Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giy Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Ala NGIY Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu Giu Giu Giu Giu Giu Giy Thr Phe Thr Ser Asp Leu Ser Lys Gin Met Giu	20	Arg																	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 16 16 16 16 16 16 17 16 17 16	19	Val	\a	Val															
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Asp Asp Asp Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu	18	Ala																	
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Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Asp Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Asp Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Asp Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Asp Ala Thr Ser Asp Leu Ser Lys Gln Met Glu Gly Asp Ala Thr Ser As	16	njg	njg	njg	nıs	ŊŊ	n G	0lu	gln	<u></u>	<u>응</u>	<u>ng</u>		ոլց	Glu	Glu	glu	glu	Glu
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Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Gly Ala Gly	14	Leu	Met	Leu	Met		1			1	ı				1		Met		Leu
Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser	13	Gln	Gln	Gln		Gln	Gln	Gln		Gln	Gln	Gln	Gln		Gln		Gln	Gln	ШĐ
Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu	12	Lys		Lys	Lys	Lys	Lys	Lys	Lys										
Gly Glu Gly Thr Phe Thr Ser Asp Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Asp Ala Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu Gly Glu Gly Thr Phe Thr Ser Asp Leu	1	Ser																	
Gly Glu Gly Thr Phe Thr Ser	10	Ala	ren	Leu		Leu					i	i				Leu			Leu
Gly Glu Gly Thr Phe Thr Dhe Thr	6	Asp	Asp	Asp	Asp	Ala	Asp	Asp	Asp	Ala	Asp	Asp	Asp	Ala	Asp	Asp	Asp	Asp	Asp
Gly Glu Gly Thr Phe Thr Dhe Th	8	Ser																	
Gly Glu Gly Thr P Gly Gly Glu Gly Thr P Gly Glu Gly Thr P Gly Glu Gly Thr P Gly Gly Glu Gly Thr P Gly Gly Glu Gly Thr P Gly Thr P Gly Thr P Gly Glu Gly Thr P Gly Thr P Gly Thr P Gly Glu Gly Thr P Gly Glu Gly Thr P Gly Glu Gly Thr P	7	Thr	Thr	Thr	Thr	Thr	Thr		Thr										
Gly Glu Gly Thr Gly Ha Gly Thr Gly Glu Gly Thr Gly Glu Gly Thr	6	Phe																	
Caly Glu Gly Glu	5	Thr	Ţ	Thr															
Giy Ala Giu Giy Giu Giy Ala Giu Giy Ala Giu Giy Giu Giy Ala Giu Giy Giu Giy Ala Giu Giy Ala Giy Giu Giu Giy Giy Giu Giy Giy Giu Giy	4	Gly	Gly	G S	Ala	<u>aly</u>	<u>G</u>	G S	Ala	<u>@</u>	<u>a</u>	Gly	Ala	G S	<u>S</u>	<u>S</u>	Ala	<u>G</u>	<u>G</u> j
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Amino Acid 1 Position Compound 141 Ala Compound 143 His Compound 146 Ala Compound 146 His Compound 146 His Compound 150 Ala Compound 151 His Compound 152 His Compound 154 His Compound 155 His Compound 155 His Compound 155 His Compound 156 His Compound 157 Ala Compound 157 Ala Compound 157 Ala	2	GIŞ	ĺ	<u>a</u>	1	l	[<u>a</u>	G S				<u>aly</u>	G S	<u>G</u>	<u>S</u>	<u>a</u>	<u>a</u>	<u>a</u>
Amino Acid Position Compound 141 Compound 144 Compound 146 Compound 146 Compound 149 Compound 150 Compound 151 Compound 151 Compound 152 Compound 155	~	Ala	!	His	His	His	Ala	His	His	His	Ala	His	His	His	Ala	His	His	Ala	Ala
7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Amino Acid Position	Compound 141	Compound 142	Compound 143	Compound 144	Compound 145	Compound 146	Compound 147	Compound 148	Compound 149	Compound 150	Compound 151	Compound 152	Compound 153	Compound 154	Compound 155	Compound 156	Compound 157	Compound 158 Ala

Fig. 4G2

																	꿀	꽃
39											NH2	꿏					Ser	Ser
38											Pro	tPro	꿏				Pro	Pro
37	2HN	-									Pro	tPro	Nme	SHN			Pro	Pro
36	Pro	꾩	NHZ								(Pro	tPro	Nme Nme NH2	hPro NH2	2HN		Pro	Pro
35	Ala	Ala	Ala	NH2							Ala	Ala	Ala	Ala	Ala		Ala	Ala
34	Gly	ලි	Gly	Gly	X모						G G	Gly	ල ලි	Gly	Gly		ලි	ය ව
33	Ser	Ser	Ser	Ser	Ser	꾟	NHZ				Ser	Ser	Ser	Ser	Ser		Ser	Ser
32	Ser	Ser	Ser	Ser	Ser	Ser	Ser	NH2			Ser	Ser			Ser		Ser	Ser
31	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	N N N		tPro	Pro	Nme Ser	hPro Ser	Pro	NHZ	Pro	Pro
30	Gly	Gly	Gly	Gly	Gly	G G	ල ලි	<u>a</u>	Gj	NH2	G G	<u>a</u>	Gy	Gly	Gly	Gly	<u>G</u>	Gly
29	Gly	Gly	Gly	Gly	Gly	ලි	Ĝ Ŝ	ල)	Gly	ලි	ලි	3	ල)	Gly	Gly	ල ල	Gly	Gly
28	Asn	Asn	Asn	Asn	Asn		Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn	Asn
27	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	eu Lys
26	nej	Leu	Leu	ren	Leu	ren	Feu	ren	ren	Leu	ren	ren	ren	ren	neŋ	Leu	Leu	Leu
25	Phe	Trp	Phe	Trp	Trp	Trp	Phe	Trp	Phe	Phe	Trp	Trp	Trp	Trp	Trp	Trp	Trp	Phe
24	Glu	Glu	Glu	Glu	Olu	ЭN	O G G	Glu	Glu	DB Glu	Glu	a B B	gn B		Olu	glu	Glu	Glu
23	lle	Ile	Ile	Ile	alle	lle	Ile	lle	<u> </u>	<u> </u>	<u>=</u>	<u> </u>	lle	Ile	Ile	alle	alle	lle
22	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
21	Leu		Leu			nə-		i ———	8	ŀ	9	8	Leu	Leu	ne-			ne-
Amino Acid Position	Compound 141 Leu	Compound 142 Leu	Compound 143	Compound 144 Leu	Compound 145 Leu	Compound 146	Compound 147 Leu	Compound 148 Leu	Compound 149	Compound 150 Leu	Compound 151	Compound 152	Compound 153	Compound 154	Compound 155	Compound 156 Leu	Compound 157 Leu	Compound 158

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- 159 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn-NH₂
- 160 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH^Eoctanoyl Asn-NH₂
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn Gly Gly-NH₂ 161 22/26
- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH^Eoctanoyl Asn Gly Gly-NH₂ 162
- 163 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Lys-NH^Eoctanoyl-NH₂
- 164 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Lys-NH^Eoctanoyl-NH₂

Fig. 4H

- 4-Imidazolylpropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Lys-NH^Eoctanoyl Gly Gly-NH₂ 165
- 166 4-Imidazolyipropionyl-Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Lys-NH^Eoctanoyl Gly Gly-NH₂
- Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn -NH₂ 167 23/26
- Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH Eoctanoyl Asn -NH2 168
- Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys-NH^Eoctanoyl Asn Gly Gly-NH₂ 169
- Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys-NH Eoctanoyl Asn Gly Gly-NH2 170

Fig. 4I

<u>9</u>

171 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu AsnLys-NH^Eoctanoyl-NH₂ 172 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe

Leu Asn Lys-NH Eoctanoyl-NH2

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Trp 173

Leu Asn Lys-NH^Eoctanoyl Gly Gly-NH₂

174 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu Ala Val Arg Leu Phe Ile Glu Phe

Leu Asn Lys-NH^Eoctanoyl Gly Gly-NH₂

Fig. 4J

Effect of functional nephrectomy on Exendin-4 clearanc

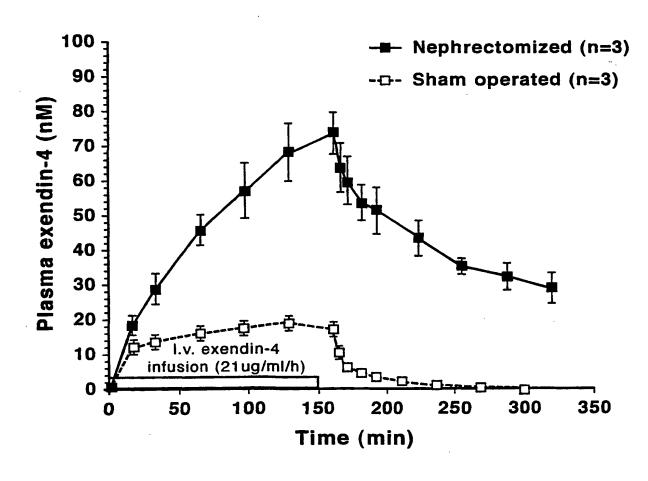


Fig. 5

Terminal decay

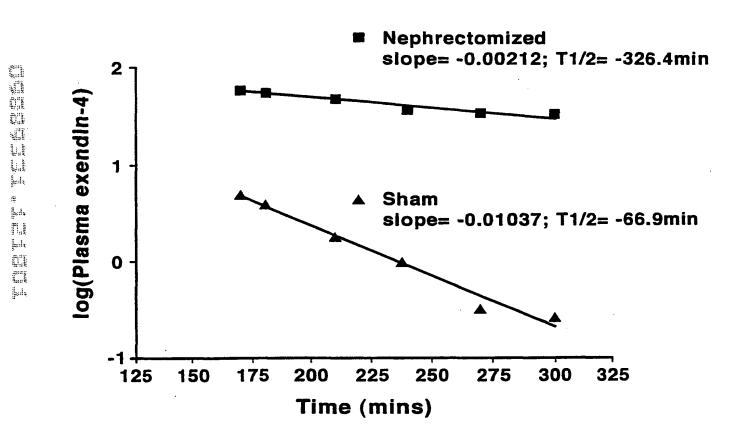


Fig. 6